

Title (en)
SHOCK ABSORBER

Title (de)
STOSSDÄMPFER

Title (fr)
AMORTISSEUR DE CHOCS

Publication
EP 3786477 A1 20210303 (EN)

Application
EP 18915815 A 20180426

Priority
JP 2018016983 W 20180426

Abstract (en)
A shock absorber (10) includes a piston (32) supported by a piston rod (31), a damper tube (34) accommodating the piston (32) and filled with oil (33), a suspension spring (35) for urging the damper tube (34) and the piston rod (31) in opposite directions, a first nut (36) for adjusting a spring load of the suspension spring (35), a second nut (37) for fixing a position of the first nut (36) in an axial direction of the damper tube (34), and a damper head (38) which covers one end portion (34a) of the damper tube (34). The first nut (36) and the second nut (37) are screwed into a first male screw (71) on an outer peripheral surface (34c) of the damper tube (34). The damper head (38) is screwed into a second male screw (72) on the outer peripheral surface (34c) of the damper tube (34). The second male screw (72) is counter-threaded with respect to the first male screw (71).

IPC 8 full level
F16F 9/32 (2006.01); **B60G 15/07** (2006.01)

CPC (source: EP US)
B60G 15/063 (2013.01 - EP US); **B60G 15/067** (2013.01 - EP); **B60G 15/068** (2013.01 - US); **B60G 17/021** (2013.01 - EP US); **B60G 17/08** (2013.01 - US); **B62K 25/283** (2013.01 - US); **F16F 9/3235** (2013.01 - EP); **F16F 9/3242** (2013.01 - EP US); **F16F 9/3271** (2013.01 - US); **F16F 9/369** (2013.01 - US); **F16F 9/56** (2013.01 - EP); **B60G 2202/12** (2013.01 - EP); **B60G 2202/312** (2013.01 - US); **B60G 2204/1242** (2013.01 - EP US); **B60G 2204/128** (2013.01 - EP US); **B60G 2204/129** (2013.01 - US); **B60G 2204/61** (2013.01 - EP); **B60G 2206/41** (2013.01 - EP US); **B60G 2206/93** (2013.01 - EP); **B60G 2300/12** (2013.01 - EP US); **B60G 2500/20** (2013.01 - EP US); **B60G 2600/20** (2013.01 - US); **B60G 2800/162** (2013.01 - US); **B62K 2025/048** (2013.01 - US); **F16F 1/121** (2013.01 - EP); **F16F 9/065** (2013.01 - US); **F16F 2222/12** (2013.01 - US); **F16F 2228/066** (2013.01 - US)

Cited by
AT523901A1; AT523901B1; US12006995B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 11964726 B2 20240423; **US 2020377168 A1 20201203**; EP 3786477 A1 20210303; EP 3786477 A4 20211208; EP 3786477 B1 20230628; JP 6357608 B1 20180711; JP WO2019207710 A1 20200507; WO 2019207710 A1 20191031

DOCDB simple family (application)
US 202016999705 A 20200821; EP 18915815 A 20180426; JP 2018016983 W 20180426; JP 2018521693 A 20180426